

ATTACHMENT 7

TRAINING PLAN

TABLE OF CONTENTS

TABLE OF CONTENTS

LIST OF ACRONYMS

LIST OF TABLES

7.1	PERSONNEL TRAINING
7.2	OUTLINE OF TRAINING PROGRAM
7.2.1	Programmatic Training
7.2.2	Job Titles and Duties
7.2.3	Training Content, Frequency, and Techniques
7.2.4	Chemical Demilitarization Training Facility
7.2.5	TOCDF Site Training
7.2.6	Annual Review and Other Training
7.2.7	Training Manager
7.2.8	Training for Emergency Response
7.3	IMPLEMENTATION OF TRAINING PROGRAM
7.4	DETAILED COURSE DESCRIPTIONS

LIST OF ACRONYMS

CAMDS	Chemical Agent Munition Disposal System
CDTF	Chemical Demilitarization Training Facility
CFR	Code of Federal Regulations
JACADS	Johnston Atoll Chemical Agent Disposal System
PAS	Pollution Abatement System
PDAR	Process Data Acquisition and Recording
PMCD	Program Manager for Chemical Demilitarization
RCRA	Resource Conservation and Recovery Act
TOCDF	Tooele Chemical Agent Disposal Facility

LIST OF TABLES

TABLE 7-1	INITIAL TRAINING REQUIREMENTS
TABLE 7-2	CONTINUING TRAINING REQUIREMENTS

7.1 **PERSONNEL TRAINING [R315-3-5(b)(12), R315-8-2.7]**

7.1.1 This training plan has been developed in accordance with R315-3-5(b)(12) and R315-8-2.7 as an integral part of the facility's Hazardous Waste Permit for hazardous waste treatment and storage. It has been implemented to ensure that the facility is operated in a manner that protects human health and the environment, both on and off the facility.

7.1.2 The training program trains facility personnel to perform their duties by providing classroom instruction, hands-on training equipment, and supervised on-the-job training. The program provides for both initial and annual review training, relevant to an employee's position, for the facility personnel that manage hazardous waste. This includes, but is not limited to, personnel that handle, move, perform maintenance on, or operate hazardous waste management equipment. The program provides facility personnel with training relevant to their positions to respond effectively to emergencies and familiarization with emergency procedures, emergency equipment, emergency systems and implementation of the contingency plan. Relevant to the employees' duties, instruction is given which teaches hazardous waste management procedures to ensure compliance with this Permit. Included in the training is an assessment of each individual's skill and knowledge to determine that the training program objectives have been met.

7.1.3 This training plan provides for the recording and documentation of training which meet hazardous waste requirements. This training plan is reviewed and updated periodically to maintain compliance with permit and regulatory requirements. This training plan is maintained and available at the Tooele Chemical Agent Disposal Facility (TOCDF).

7.1.4 Section 7.2 provides an outline of the training program, while Section 7.3 describes implementation of the training program.

7.2 **OUTLINE OF TRAINING PROGRAM [R315-3-5(b)(12), R315-8-2.7(a)(1), R315-8-2.7(a)(2)]**

7.2.1 **Programmatic Training**

7.2.1.1 The Program Manager for Chemical Demilitarization (PMCD) has been tasked with carrying out the Army's responsibility for disposing of the United States stockpile of chemical warfare munitions pursuant to Public Law 99-145. There are eight disposal sites in the continental United States where chemical disposal facilities are or may be constructed, with the TOCDF being one of the eight. The PMCD determined that successful operation of the chemical disposal facilities depended on a thoroughly trained work force for each facility. A programmatic training facility was planned to provide systems training. The programmatic demilitarization training facility is located in the Edgewood Area of the Aberdeen Proving Ground, Maryland, known as the Chemical Demilitarization Training Facility (CDTF).

- 7.2.1.2 This training provides the skill and knowledge that is common to the eight chemical disposal facilities. The training is provided by using actual process equipment and lines, simulated toxic work areas, a control room simulator, and a non-agent laboratory. Information developed at the Chemical Agent Munitions Disposal System (CAMDS), TOCDF, and the Johnston Atoll Chemical Agent Disposal System (JACADS) is used in this training program.
- 7.2.1.3 The training program was developed from a job/task analysis that defined the technical tasks which are performed by the facility personnel. Skill and knowledge profiles were developed to indicate the items that must be known to perform a particular task. The skill and knowledge profiles were then used to develop the course objectives and supporting training materials.
- 7.2.1.4 TOCDF course materials are validated by technical review performed by Government and contractor subject matter experts. Any required changes are incorporated prior to using the course material.
- 7.2.1.5 Not all facility personnel receive advanced training at the CDTF; initial training and annual review training are conducted at the TOCDF. Tables 7-1 and 7-2 list the courses for initial, advanced, and annual review training. The courses listed in the tables and described in Section 7.4 are taught at either the CDTF or the TOCDF.
- 7.2.2 Job Titles and Duties [R315-8-2.7(d)(1)]
- 7.2.2.1 The original job titles and duties for job positions related to hazardous waste management were determined as part of the training program development process. Some of the job titles at TOCDF would be common to job titles at the other chemical stockpile disposal sites. Each job position shall have a written job description which lists the requisite skill, education or other qualifications, and the duties for that position. The TOCDF job description and employee name filling that position shall be maintained at the TOCDF.
- 7.2.2.2 Facility personnel are hired using criteria for each job classification which includes minimum standards for education and previous training or experience.
- 7.2.2.3 Personnel expected to have access to agent will enter the Army's Chemical Personnel Reliability Program.
- 7.2.3 Training Content, Frequency, and Techniques R315-8-2.7(d)(3), R315-8-2.7(c)]
- 7.2.3.1 The classroom lectures, hands-on training, and self-paced study courses that are required by an employee's job position are listed in Table 7-1, Table 7-2 and in the Training Records Management System database. The descriptions of these courses, and the training frequency and techniques, are included in Section 7.4.
- 7.2.4 Chemical Demilitarization Training Facility (CDTF) Training

- 7.2.4.1 The CDTF located at Aberdeen Proving Ground, Maryland, is used to provide classroom and hands-on training for those personnel who will benefit from practicing with the unique demilitarization equipment and monitoring support equipment. The CDTF includes actual demilitarization process lines as training equipment, a control room simulator, simulated toxic change area, maintenance craft laboratories for electrical, instrument, and mechanical training, simulated toxic maintenance area, and a non-agent laboratory. This equipment allows plant operators, maintenance personnel, and analytical and monitoring personnel to have hands-on experience in a nontoxic environment.
- 7.2.4.2 Major pieces of demilitarization equipment installed at the CDTF are the Rocket Shear Machine/Burster Size Reduction kit, Mine Machine, Projectile/Mortar Disassembly Machine, Multipurpose Demilitarization Machine, Bulk Drain Station, conveyors, airlocks, furnace equipment and the Pick and Place Machine. The equipment is sequenced to follow the demilitarization process from the Unpack Area, through the Explosive Containment Room Vestibule, and through the demilitarization operations. Operation and control of other process equipment not included at the CDTF is simulated using a simulation computer and trainer's console. The non-agent laboratory provides training in monitoring and analytical techniques in the areas of occupational exposure and environmental emission criteria.
- 7.2.4.3 The personnel who do not require advanced technical training at the CDTF (administrative personnel, supply staff, etc.) receive their training at the TOCDF. Personnel attend training at the CDTF in accordance with the requirements of their job position. The detailed course descriptions shown in Section 7.4 may be taught by either TOCDF or CDTF instructors. Personnel in operations and maintenance are only required to train in those sections of the technical courses in Section 7.4 that are needed to operate/maintain the system(s) on which they will work. For example, a Control Room Operator attends applicable modules of Plant Operator training as required by their job position, while a Pollution Abatement System (PAS) Operator attends only those modules which are relevant to the PAS. Also, a Control Room Operator who operates furnace systems is only trained in the sections applicable to those systems in each technical course.
- 7.2.5 TOCDF Site Training
- 7.2.5.1 During training, the employee gains plant experience. Department managers may conduct job specific training or performance demonstrations needed for employees to demonstrate job competency or to complete experience requirements.
- 7.2.5.2 After the initial training requirements for the specified job position are met, the employee may work unsupervised at the site. Employees shall not work unsupervised in the plant until the initial training requirements are completed. This includes completing initial training courses, which demonstrate the basic skill and knowledge, and satisfactory completion of any on-the-job training.
- 7.2.6 Annual Review and Other Training

- 7.2.6.1 Continuing training takes place at the TOCDF. It includes individual department training such as safety training, review of Operating Procedures, and other specialized training as required. The job titles, which receive continuing training, are shown in Table 7-2. DPE suit training is only provided to those individuals with the specified job titles who actually make DPE entries. Additional training requirements of specific personnel are based on observation and critique by safety and supervisory personnel. Remedial training is conducted whenever necessary. When job specific requirements warrant change to either training or training material, such as a change in munition processing or agent campaign, retraining shall take place for the relevant job titles without modification to this Permit. Integrated plant exercises are held that may involve small groups or the entire facility in order to evaluate personnel emergency responses and provide team training. These exercise scenarios are also used to evaluate the emergency responses and the contingency procedures.
- 7.2.6.2 When munition processing or an agent campaign is changed, the facility personnel shall receive specific training before the new campaign begins. The training courses for process change are listed in Table 7-2. Only the training necessary for the process change will be taught. Annual review training provides a review of agent characteristics, hazards and symptoms, emergency response, and waste management. Some of the presentation techniques for annual review training may be changed from formal classroom activities to self-paced study. The self-paced study is directed and monitored by the Training Staff. The employee is given sufficient time to study the material for the course. The same material is reviewed in self-paced study as in formal classroom activities. The detailed course descriptions in Section 7.4 state the applicability of annual review training for each course. In addition to the annual refresher training, a review of the agent characteristics, associated hazards/symptoms, and agent process changes is conducted prior to an agent change.
- 7.2.6.3 In addition to completing required courses, all employees must understand the basic operation of the facility and know and abide by Army regulations applicable to chemical agent facilities, such as surety, security, and safety.
- 7.2.6.4 Some of the presentation techniques may be changed to self-paced study from formal classroom activities, for individuals hired to fill a job position after the initial work force has been trained. The self-paced training is directed and monitored by the Training Staff and any on-the-job training is directed by the individual's supervisor. The employee is given sufficient time to study the material and take the written test(s) for the course. The new hires develop the same skill and knowledge as if they had attended formal classroom activities. New hires complete replacement training before working unsupervised in the plant. They shall complete initial training requirements within six months of the date of their employment or assignment to a new position in order to work unsupervised in the plant.
- 7.2.7 Training Manager [R315-8-2.7(a)(2)]
- 7.2.7.1 The Training Manager at the TOCDF is responsible for ensuring that employees have completed the training requirements and performance demonstrations, if any, for their specified job. Included in the requirements and responsibilities of the Training Manager are the following:

- 7.2.7.1.1 Schedule training
- 7.2.7.1.2 Coordinate training with the CDTF.
- 7.2.7.1.3 Supervise the training of personnel in proper operation of the facility in accordance with federal, state, and local environmental regulations, and the facility's Permit.
- 7.2.7.1.4 Perform and evaluate classroom instruction.
- 7.2.7.1.5 Determine performance demonstrations, if any, for each job position.
- 7.2.7.1.6 Administer the personnel training records in accordance with this Permit.
- 7.2.7.1.7 Ensure the quality of the training program.
- 7.2.7.1.8 Identify training documents.
- 7.2.7.1.9 Direct and coordinate training document development.
- 7.2.7.2 The experience and qualifications of the Training Manager are:
 - 7.2.7.2.1 Trained in hazardous waste management.
 - 7.2.7.2.2 Knowledge of plant operations.
 - 7.2.7.2.3 Prior teaching experience including training plan development experience.
- 7.2.7.3 The Training Manager is required to become thoroughly familiar with hazardous waste management requirements and facility operations prior to exercising control over this training program.
- 7.2.8 Training for Emergency Response [R315-8-2.7(a)(3)]
 - 7.2.8.1 Facility personnel are trained to respond properly, as outlined in Attachment 9 (Contingency Plan), to emergency situations based on their job responsibilities. Training includes agent characteristics/symptoms and first aid, response to alarms and evacuation, response to fire alarms, and personal protective equipment. Employees receive training appropriate to their job description that includes emergency response for agent related emergencies. Practical exercises and participation in exercise scenarios provide on-the-job experience. Based on job duties, employees receive training on emergency monitoring equipment operation and maintenance, key parameters for waste feed cut-offs, and ground water contamination.
 - 7.2.8.2 Site hazardous material response training is provided to selected individuals from the plant staff who act as responders to hazardous material incidents. The training is provided by an instructor whose qualifications meet the state and federal regulatory requirements.
 - 7.2.8.3 Annual review training is provided by TOCDF instructors. Training records for annual review training shall be maintained at the TOCDF.

7.3 **IMPLEMENTATION OF TRAINING PROGRAM [R315-8-2.7(b), R315-8-2.7(d)(4), R315-8-2.7(e)]**

- 7.3.1 Facility personnel that manage hazardous waste shall successfully complete their initial training within six months after their date of employment, assignment to the facility, or assignment to a new position at the facility. Prior to completing the initial training, personnel that manage hazardous waste shall be supervised while performing hazardous waste duties.
- 7.3.2 Training operations began prior to systemization, continue through plant operations, and end when closure is complete. The training program includes initial, advanced, and annual review training. Personnel in operations and maintenance are only required to complete the sections of the technical courses described in Section 7.4 which are relevant to the system(s) which the individual will operate or maintain.
- 7.3.3 Employees are assigned to training courses that meet the needs of the facility and ensure compliance with regulatory requirements. Each course has its own unique set of objectives for skill and knowledge that must be mastered before the employee passes the course. The instructor records attendance and performance for each employee. This record goes into the employee's Training Folder and into the Training Records Maintenance System database. The Training Department documents the training given to and completed by each employee.
- 7.3.4 Employees who cannot complete the training requirements for their job position will have their training records and performance evaluated. The evaluation will be conducted by the Training Manager and the individual's manager or department head. Recommendations on the employee's suitability to the job or the project will be made to the General Manager.
- 7.3.5 The following information and documents shall be maintained and available at the TOCDF:
- 7.3.5.1 Job title for each position at the facility related to hazardous waste management, and the name of the employee(s) filling each job.
- 7.3.5.2 A written job description for each job title.
- 7.3.5.3 A written description of the type and amount of initial, advanced, and annual review training given to each person named.
- 7.3.5.4 Records that document the successful completion of the training and any experience required for each person named.
- 7.3.6 The training records and documents shall be kept at least until closure of the facility. Training records on former employees shall be kept at least three years from the date the employee last worked at the facility. The Training Plan shall be maintained and available at the TOCDF.

7.4 **Detailed Course Descriptions [R315-8-2.7(d)(3)]**

- 7.4.1 The following courses consist of one or more training modules. Employees are required to successfully complete at least one training module in any course required for their job position. Employees receive training in the modules which are necessary for their job position. These courses may be applicable for initial, advanced, annual review, or process change training. Initial training shall be completed within six months. Advanced training shall be completed after the initial training period but prior to the employee working unsupervised in the plant. Annual review training shall be accomplished within 365 days of the anniversary date of initial training with a grace period of 30 days and may consist of self-paced study. Employees hired prior to the effective date of this Permit may use their last refresher date as the date of initial training. For a change in munition processing or agent campaign, only the training necessary for the change is provided. Courses may be conducted by either CDTF or TOCDF personnel at either facility.
- 7.4.2 General Employee: This course provides employees with general information about the TOCDF. This course is an initial training requirement. Annual review training is applicable. Process change training is not applicable. Topics covered in the course include: Chemical Stockpile Disposal Program Overview; Chemical Agent Description, Physiological Effects, and First Aid; Emergency Response/First Responder Training; Hazardous Waste Management; Response to Alarms; Description of Munitions/Agent Inventory; Process Flow Overview; Personal Protective Equipment for Site Entry; and Quality Control Overview.
- 7.4.3 Facility Technical Overview: This course provides training to employees in technical job positions. It describes the TOCDF plans and procedures necessary for safe operation and regulatory compliance. This course is an initial training requirement. Annual review and process change training are not applicable. Topics covered in this course include: Federal and State Regulatory Authority; Emergency Response Plan and Organization; Safety Program Plan; Accident Prevention Plan; Industrial Hygiene Plan; Medical Plan; Training Plan; Quality Assurance Plan; Security and Surety; Purchasing; and Document Control.
- 7.4.4 Systems Descriptions: This course describes the operation and control of the plant systems and is broken into training modules and taught at the block diagram, piping and instrumentation drawing level, as appropriate for the job position. Employees receive only the modules necessary for job performance. The course is intended for employees who operate or maintain plant equipment and their managers/supervisors. This course is an initial training requirement. Annual review and process change training are not applicable. Topics covered in this course include: Major Components/Equipment and Construction; System Operation; System Flow; System Key Parameters; System Interlocks; System Alarms; and System Waste Feed Cut-off.
- 7.4.5 DPE Suit, Protective Equipment and Toxic Area Entry/Exit: Provides a description of all levels of protective clothing, toxic area entry requirements and procedures, decontamination techniques, toxic area entry monitoring activities, and personnel emergencies in toxic areas. Practical exercises are included for suit-up activities in toxic areas, and decontamination.

- 7.4.6 Protective Clothing: Is for individuals who will wear protective clothing, but not DPE or OSHA A. This course describes agent symptoms, hazard categories, decontamination techniques, and non-emergency operations. Practical exercises include hands-on training with personal protective clothing.
- 7.4.7 Plant Operator: This course is intended for plant operators, their supervisors, and plant shift managers. Hands-on training is provided for operators to develop the skills necessary to operate plant equipment during normal and emergency conditions. This course is an advanced training requirement. Annual review training is not applicable. Process change training is applicable. Topics covered in this course include: Control Description and Response; Interpretation of System Indication and Response; System Operation; System Safety, Chemical Surety, and Environmental Requirements; Normal System Operating Procedures; Data Logging; Procedure Compliance; and Process Control System Overview.
- 7.4.8 Munitions Processing: This course builds on previous training for operators and supervisors who handle agent/munitions or control the demilitarization processes. It is based on current operating procedures. This course is an advanced training requirement. Annual review training is not applicable. Process change training is applicable. Topics covered in this course include: Normal Process System Operating Procedures; Abnormal/Emergency Process System Procedures; and Process Line Safety, Chemical Surety, and Environmental Requirements.
- 7.4.9 Plant Maintenance: This training provides maintenance craftsmen and supervisors with the skills and knowledge to maintain various pieces of plant equipment. This course is an advanced training requirement. Annual review training is not applicable. Process change training is applicable. Topics covered in this course include: Normal Operation; Troubleshooting; Maintenance Techniques and Methods; Safety and Environmental Requirements; and Data Logging.
- 7.4.10 Process Control System: This course is intended for Controls Engineers and Process Data Acquisition and Recording (PDAR) Engineers. It provides a detailed explanation of the specific components of the process control system. This course is an advanced training requirement. Annual review and process change training are not applicable. Topics covered in this course include: Equipment Operation; Troubleshooting; and Programming.
- 7.4.11 Laboratory Monitoring: This course provides monitoring personnel and supervisors with a description of laboratory monitoring activities and equipment. It provides skills and knowledge on the agent and industrial pollutant monitoring equipment used at the facility. This course is an advanced training requirement. Annual review training is not applicable. Process change training is applicable. Topics covered in this course include: Operation and Maintenance of Agent Monitors; Operation and Maintenance of Non-Agent Monitors; Troubleshooting Equipment Faults; Response to Agent and Non-Agent Monitor Alarms; Laboratory Monitoring Procedures; and Sample Collection Requirements and Methods.

- 7.4.12 Site Laboratory Analysis: This course is designed to introduce laboratory personnel to the plans and procedures necessary to perform the laboratory mission in a safe and environmentally responsible manner in accordance with applicable regulations. This course is an initial training requirement. Annual review training is not applicable. Process change training is applicable. Topics covered in this course include: Laboratory Analytical Procedures; Laboratory Safety; Chemical Hygiene; Hazardous Waste Procedures; and Contingency Procedures.
- 7.4.13 Laboratory Equipment: This course provides component level training for laboratory instrument technicians on agent and industrial pollutant monitors. This course is an advanced training requirement. Annual review training and process change training are not applicable. Topics covered in this course include: Component Fault Isolation Techniques; Equipment Maintenance Safety; and Component Replacement.

Table 7-1 Initial Training Requirements												
Course Number	1	2	3	4	5	6	7	8	9	10	11	12
COURSE TITLE	Gen'l Empl	Tech Overview	Sys. Descriptions	DPE Suit	Protect Cloth	Plant Operator	Munition Process	Plant Maint	Control System	Site Lab Analysis	Lab Monitor	Lab Equip
JOB TITLE												
General Manager	X	X	X									
Deputy General Manager – Technical Support/Risk Manager	X	X	X									
Deputy General Manager – Plant Operations	X	X	X									
Environmental Compliance Manager	X	X	X									
Permitting Supervisor	X	X	X									
Environmental Shift Inspector	X	X										
Environmental Inspector/Auditor	X	X										
Lead Environmental Compliance Representative	X	X	X									
Permitting Technician/Specialist	X	X	X									
Environmental Test Specialist	X	X	X									
Closure Environmental Engineer Technician	X	X	X									
Environmental Technician	X	X	X									
Lifecycle Planning Manager	X	X	X									
Project Manager - Mustard	X	X	X									
Mustard Campaign Planning Manager	X	X	X									
Environmental Leader	X	X	X									
Surety/Security Manager	X	X	X									
Quality Manager	X	X	X									
Quality Support Specialist	X	X	X									
Quality Technician	X	X	X									
Quality Oversight Specialist	X	X	X									

Table 7-1 Initial Training Requirements												
Course Number	1	2	3	4	5	6	7	8	9	10	11	12
COURSE TITLE	Gen'l Empl	Tech Overview	Sys. Descriptions	DPE Suit	Protect Cloth	Plant Operator	Munition Process	Plant Maint	Control System	Site Lab Analysis	Lab Monitor	Lab Equip
JOB TITLE												
Quality Support Supervisor	X	X	X									
Quality Management Support Technician	X	X	X									
Safety Manager	X	X	X									
Shift Safety Specialist	X	X	X									
Safety Engineer/Technologist	X	X	X									
Industrial Hygienist	X	X	X									
Agent Munitions/Safety Specialist	X	X	X									
Agent Munitions/Security Specialist	X	X	X									
Emergency Preparedness Administrator	X	X	X									
Training Manager	X	X	X									
Training Instructor /Simulator Specialist	X	X	X									
Training Specialist/Instructor	X	X	X									
Operations Manager	X	X	X									
Assistant Operations Manager	X	X	X						X			
Plant Shift Manager	X	X	X						X			
Maintenance Manager	X	X	X									
Systems Engineer	X	X	X									
Controls Engineer	X	X	X						X			
Controls Engineer Supervisor	X	X	X						X			
Operations Supervisor	X	X	X			X	X		X			
Control Room Supervisor	X	X	X			X	X		X			
Hazmat/Hotline/DSA/ Coordinator (Specialist)	X	X	X	X		X						
Control Room Operator	X	X	X			X	X		X			
PAS Operator	X	X	X	X		X						
BRA/RHA Operator	X	X	X			X						

Table 7-1 Initial Training Requirements												
Course Number	1	2	3	4	5	6	7	8	9	10	11	12
COURSE TITLE	Gen'l Empl	Tech Overview	Sys. Descriptions	DPE Suit	Protect Cloth	Plant Operator	Munition Process	Plant Maint	Control System	Site Lab Analysis	Lab Monitor	Lab Equip
JOB TITLE												
Utilities Operator	X	X	X			X						
DSA Operator	X	X	X	X		X						
CHB/UPA Operator	X	X	X	X								
Maintenance Supervisor	X	X	X	X								
Maintenance Engineer	X	X	X									
Calibration Coordinator	X	X										
Planner	X	X										
Electrical Technician	X	X	X	X				X				
Instrument Installer	X											
I&C Technician	X	X	X	X				X				
Mechanical Technician	X	X	X	X				X				
PM/CM Technician	X	X										
Preventative Maintenance Coordinator	X	X	X									
Modification Maintenance Supervisor	X	X	X									
Warehouse Supervisor	X	X										
Hazardous Waste Supervisor	X	X	X	X		X						
Hazardous Waste Coordinator	X	X	X	X		X						
Hazardous Waste Technician	X	X	X	X		X						
Laboratory Manager	X	X	X							X	X	
Laboratory QC Manager	X	X	X							X	X	
QC Analytical Inspector	X	X	X							X	X	
Quality Engineer	X	X	X				X		X			
Metals Group Supervisor	X	X	X		X					X		
Special Projects Leader	X	X	X		X					X		
QC Monitoring Inspector	X	X	X							X	X	
Monitoring Manager	X	X	X								X	
CEMS Specialist	X	X	X								X	
Monitoring Operations Coordinator	X	X	X							X	X	
Monitoring Team Leader	X	X	X		X						X	

Table 7-1 Initial Training Requirements												
Course Number	1	2	3	4	5	6	7	8	9	10	11	12
COURSE TITLE	Gen'l Empl	Tech Overview	Sys. Descriptions	DPE Suit	Protect Cloth	Plant Operator	Munition Process	Plant Maint	Control System	Site Lab Analysis	Lab Monitor	Lab Equip
JOB TITLE												
Senior Monitoring Technician	X	X	X							X	X	
Monitoring Technician I	X	X	X		X						X	
Monitoring Technician II	X	X	X		X						X	
Senior Laboratory Support Technician	X	X	X		X					X		
DAAMS Process Supervisor	X	X	X							X	X	
Laboratory Support Supervisor	X	X	X		X					X		
Instrument Technician	X	X	X		X					X	X	X
Laboratory Analytical Manager	X	X	X							X		
Shift Chemist	X	X	X							X		
Senior GC Operator	X	X	X							X		
GC Operator	X	X	X							X		
Laboratory Technician	X	X	X							X		
Agent Chemist	X	X	X		X					X		
Laboratory Data Analyst	X	X	X							X		
Plant Systems Engineering Manager	X	X	X									
Project Engineering Supervisor	X	X	X									
Engineering Manager	X	X	X									
Engineering Supervisor	X	X	X									
Chemical Engineer	X	X	X									
Electrical Engineer Design	X	X	X						X			
Electrical Engineer	X	X	X						X			
Mechanical Engineer – Design	X	X	X									
Mechanical Engineer	X	X	X									
Engineering Technologist – Design	X	X	X									
Engineering/Technologist	X	X	X									
Engineering Technician	X	X	X									

Table 7-1 Initial Training Requirements												
Course Number	1	2	3	4	5	6	7	8	9	10	11	12
COURSE TITLE	Gen'l Empl	Tech Overview	Sys. Descriptions	DPE Suit	Protect Cloth	Plant Operator	Munition Process	Plant Maint	Control System	Site Lab Analysis	Lab Monitor	Lab Equip
JOB TITLE												
PDAR Engineer	X	X	X									
PDAR Technician	X	X	X									
Environmental Engineer/Technologist	X	X	X									
Project Specialist	X	X	X									

Table 7-2 Continuing Training Requirements												
Annual Review	X			X	X							
Process Change						X	X	X		X	X	
Course Number	1	2	3	4	5	6	7	8	9	10	11	12
COURSE TITLE	Gen'l Empl	Tech Overview	Sys. Descriptions	DPE Suit	Protect Cloth	Plant Operator	Munition Process	Plant Maint	Control System	Site Lab Analysis	Lab Monitor	Lab Equip
JOB TITLE												
General Manager	X											
Deputy General Manager – Technical Support/Risk Manager	X											
Deputy General Manager – Plant Operations	X											
Environmental Compliance Manager	X											
Permitting Supervisor	X											
Environmental Shift Inspector	X											
Environmental Inspector/Auditor	X											
Lead Environment Compliance Representative	X											
Permitting Technician/Specialist	X											
Environmental Test Specialist	X											
Closure Environmental Engineer Technician	X											
Environmental Technician	X											
Lifecycle Planning Manager	X											
Project Manager-Mustard	X											
Mustard Campaign Planning Manager	X											
Environmental Leader	X											
Surety/Security Manager	X											
Quality Manager	X											
Quality Support Specialist	X											
Quality Technician	X											
Quality Oversight Specialist	X											

Table 7-2 Continuing Training Requirements												
Annual Review	X			X	X							
Process Change						X	X	X		X	X	
Course Number	1	2	3	4	5	6	7	8	9	10	11	12
COURSE TITLE	Gen'l Empl	Tech Overview	Sys. Descriptions	DPE Suit	Protect Cloth	Plant Operator	Munition Process	Plant Maint	Control System	Site Lab Analysis	Lab Monitor	Lab Equip
JOB TITLE												
Quality Support Supervisor	X											
Quality Management Support Technician	X											
Safety Manager	X											
Shift Safety Specialist	X											
Safety Engineer/Technologist	X											
Industrial Hygienist	X											
Agent Munitions/Safety Specialist	X											
Agent Munitions/Security Specialist	X											
Emergency Preparedness Administrator	X											
Training Manager	X											
Training Instructor /Simulator Specialist	X											
Training Specialist Instructor	X											
Operations Manager	X											
Assistant Operations Manager	X											
Plant Shift Manager	X											
Maintenance Manager	X											
Systems Engineer	X											
Controls Engineer	X											
Controls Engineer Supervisor	X											
Operations Supervisor	X					X	X					
Control Room Supervisor	X					X	X					
Hazmat/Hotline/DSA/ Coordinator (Specialist)	X			X		X						
Control Room Operator	X					X	X					
PAS Operator	X			X		X						

Table 7-2 Continuing Training Requirements												
Annual Review	X			X	X							
Process Change						X	X	X		X	X	
Course Number	1	2	3	4	5	6	7	8	9	10	11	12
COURSE TITLE	Gen'l Empl	Tech Overview	Sys. Descriptions	DPE Suit	Protect Cloth	Plant Operator	Munition Process	Plant Maint	Control System	Site Lab Analysis	Lab Monitor	Lab Equip
JOB TITLE												
BRA/RHA Operator	X					X						
Utilities Operator	X					X						
DSA Operator	X			X		X						
CHB/UPA Operator	X			X								
Maintenance Supervisor	X			X								
Maintenance Engineer	X											
Calibration Coordinator	X											
Planner	X											
Electrical Technician	X			X				X				
Instrument Installer	X											
I&C Technician	X			X				X				
Mechanical Technician	X			X				X				
PM/CM Technician	X											
Preventative Maintenance Coordinator	X											
Modification Maintenance Supervisor	X											
Warehouse Supervisor	X											
Hazardous Waste Supervisor	X											
Hazardous Waste Coordinator	X			X		X						
Hazardous Waste Technician	X			X		X						
Laboratory Manager	X									X	X	
Laboratory QC Manager	X									X	X	
QC Analytical Inspector	X									X	X	
Quality Engineer	X						X					
QC Monitoring Inspector	X									X	X	
Metals Group Supervisor	X									X		
Special Projects Leader	X									X		
Monitoring Manager	X										X	
CEMS Specialist	X										X	

Table 7-2 Continuing Training Requirements												
Annual Review	X			X	X							
Process Change						X	X	X		X	X	
Course Number	1	2	3	4	5	6	7	8	9	10	11	12
COURSE TITLE	Gen'l Empl	Tech Overview	Sys. Descriptions	DPE Suit	Protect Cloth	Plant Operator	Munition Process	Plant Maint	Control System	Site Lab Analysis	Lab Monitor	Lab Equip
JOB TITLE												
Monitoring Operations Coordinator	X									X	X	
Monitoring Team Leader	X				X						X	
Senior Monitoring Technician	X				X						X	
Instrument Technician	X				X					X	X	
Monitoring Technician I	X				X						X	
Monitoring Technician II	X				X						X	
Senior Laboratory Support Technician	X				X							
DAAMS Process Supervisor	X				X					X		
Laboratory Support Supervisor	X									X		
Laboratory Analytical Manager	X									X		
Shift Chemist	X									X		
GC Operator	X									X		
Senior GC Operator	X									X		
Laboratory Technician	X									X		
Agent Chemist	X				X					X		
Laboratory Data Analyst	X									X		
Plant Systems Engineering Manager	X											
Project Engineering Supervisor	X											
Engineering Manager	X											
Engineering Supervisor	X											
Chemical Engineer	X											
Electrical Engineer - Design	X											
Electrical Engineer	X											
Mechanical Engineer - Design	X											
Mechanical Engineer	X											

Table 7-2 Continuing Training Requirements												
Annual Review	X			X	X							
Process Change						X	X	X		X	X	
Course Number	1	2	3	4	5	6	7	8	9	10	11	12
COURSE TITLE	Gen'l Empl	Tech Overview	Sys. Descriptions	DPE Suit	Protect Cloth	Plant Operator	Munition Process	Plant Maint	Control System	Site Lab Analysis	Lab Monitor	Lab Equip
JOB TITLE												
Engineering Technologist - Design	X											
Engineering/Technologist	X											
Engineering Technician	X											
PDAR Engineer	X											
PDAR Technician	X											
Environmental Engineer Technologist	X											
Project Specialist	X											

Table 7-1 and Table 7-2
Initial and Continuing Training Requirements

ACRONYM LIST FOR JOB TITLES

DSA Operator	Demilitarization Protective Ensemble Support Area Lead
CHB/UPA Operator	Container Handling Building/Unpack Area Lead
BRA/RHA Operator	Brine Reduction Area/Residue Handling Area Lead
PAS Operator	Pollution Abatement System Operator
I&C Technician	Instrumentation and Control Technician Lead
DAAMS Process Supervisor	Depot Area Air Monitoring System Process Supervisor
GC Operator	Gas Chromatograph Operator
Senior GC Operator	Senior Gas Chromatograph Operator
PDAR Engineer	Process Data Acquisition and Recording Engineer